CIVIL QUALITY CONSULTANTS & ENGINEERS

ISO 9001:2015 Certified & NABL Accredited Laboratory as per ISO/IEC - 17025-2017

Testing of Construction Material - Mechanical, Soil, Bitumen, Non Destructive Testing Services, Project Management Consultants, Third Party Quality Assurance, DPR.

No: CQCE/BBMP/NMK/16/2021-22

Date 27.10.2021

GRADATION FOR GSB (Grading V)

Client : : Assistant Executive Engineer, Yeshwnthpura Sub Division, BBMP, Bangalore.

Agency: : Sri. N M Krishnamurthy, Contractor, Bangalore.

Name of work: Removal of Debries,Berm Cuttings,Filling of Road Cutting and other road Maintenance Works in Ward no-16 Jalahalli, BBMP, Bangalore.

BIS Code: IS 2386 Part (1):1963
IS 2720 part (5):1985

Date of Testing : 25.10.2021 to 27.10.2021

Oven Dry Wt (gm) : 13000

TABLE – 1

Is Sieve Size in mm	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Requirements as per MORTH 5th edition table 400.1
75	0	0	0.00	100	100
53	1261	1261	9.70	90.30	80-100
26.5	2052	3313	25.48	74.52	55-90
9.5	2146	5459	41.99	58.01	35-65
4.75	1367	6826	52.51	47.49	25-50
2.36	3653	10479	80.61	19.39	10-20
0.85	1259	11738	90.29	9.71	2-10
0.425	962	12700	97.69	2.31	0-5

Table 2

Sl. No.	Particulars	Test Results	Requirements as per MORTH 5th edition table 400.2
1	Liquid Limit, %	22.00	25.0% Maximum.
2	Plasticity Index, %	Non Plastic	6.0% Maximum.

Remarks: Satisfies MORTH Specifications as per Table 400-1, Grading V

Note:

1. The Material is Satisfied as per the Requirements.

For CIVIL QUALITY CONSULTANTS & ENGINEERS

Authorised Signatory

Corporate Off.: No. 133, Bhuvaneshwarinagar, Doddabasti Main Road, Bangalore-560 056.
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ISO 9001:2015 Certified & NABL Accredited Laboratory as per ISO/IEC - 17025-2017

Testing of Construction Material - Mechanical, Soil, Bitumen, Non Destructive Testing Services, Project Management Consultants, Third Party Quality Assurance, DPR.

Job No.: CQCE/BBMP/NMK/16/2021-22

Date : 03.11.2021

GRADATION FOR WMM

Client : **Assistant Executive Engineer,** Yeshwnthpura Sub Division, BBMP, Bangalore.
Agency : **Sri. N M Krishnamurthy,** Contractor, Bangalore.
Name of Work Removal of Debries,Berm Cuttings,Filling of Road Cutting and other road Maintenance Works in Ward no-16 Jalahalli, BBMP, Bangalore.
IS Code: : IS 2386 (Part 1):1963(RA 2011)
Date of Testing 03.11.2021
Material Type : Wet Mix Macadam

Oven Dry.Wt, grar 10000

Is Sieve Size in mm	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Requirement as per MORTH 5th edition table no 400.13
53	0	0	0	100	100
45	357	357	3.6	96.4	95-100
22.4	2415	2772	27.7	72.3	60-80
11.2	2136	4908	49.1	50.9	40-60
4.75	1566	6474	64.7	35.3	25-40
2.36	1124	7598	76.0	24.0	15-30
0.600	885	8483	84.8	15.2	8-22
0.075	1212	9695	97.0	3.1	0-5

Note:
1. The material is Satisfied as per the Requirements.

For CIVIL QUALITY CONSULTANTS & ENGINEERS

Authorised Signatory

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Testing of Construction Material - Mechanical, Soil, Bitumen, Non Destructive Testing Services, Project Management Consultants, Third Party Quality Assurance, DPR.

Job No.: CQCE/BBMP/NMK/16/2021-22

Date: 03.11.2021

Aggregate Impact Value

Client	: Assistant Executive Engineer, Yeshwnthpura Sub Division, BBMP, Bangalore.
Agency	: Sri. N M Krishnamurthy, Contractor, Bangalore.
Name of the Work	Removal of Debries,Berm Cuttings,Filling of Road Cutting and other road Maintenance Works in Ward no-16 Jalahalli, BBMP, Bangalore.
IS Code	IS 2386 (Part 4):1963(RA 2011)
Type of Mix	Wet Mix macadam
Date of Testing	03.11.2021

Sl No.	Details	Test No. 1	Test No. 2	Average
1	Total weight of aggregate sample filling the cylindrical measure = W_1 g	401	403	
2	Weight of agregate passing 2.36 mm sieve after the test = W_2 g	81	83	
3	Weight of aggregate retained 2.36 mm sieve after the test = W_3 g	320	320	
4	Aggregate Impact value = percent fines $100^* (W_2/W_1)\%$	20.20	20.60	20.40

Comments:

→ Maximum allowable Aggregate Impact value for Wet mix Macadam is 30%(As per MORTH Specication table 400.12)

Note:

1. The material is Satisfied as per the Requirements.

For CIVIL QUALITY CONSULTANTS & ENGINEERS

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Testing of Construction Material - Mechanical, Soil, Bitumen, Non Destructive Testing Services, Project Management Consultants, Third Party Quality Assurance, DPR.

Job No.: CQCE/BBMP/NMK/16/2021-22

Date : 03.11.2021

DETERMINATION OF FLAKINESS INDEX & ELONGATION INDEX OF COARSE AGGREGATES

Client	: Assistant Executive Engineer, Yeshwnthpura Sub Division, BBMP, Bangalore.
Agency	: Sri. N M Krishnamurthy, Contractor, Bangalore.
Name of Work	Removal of Debries,Berm Cuttings,Filling of Road Cutting and other road Maintenance Works in Ward no-16 Jalahalli, BBMP, Bangalore.
BIS code:	IS 2386(Part 1) 1963 (RA 2011)
Type of Mix	Wet Mix Macadam
Date of Testing	03.11.2021

Sl no	Test	1	2	Requirements as per MORTH 5th edition table no 400.12
1	Flakiness Index %	10.6	11.4	Combined Flakiness & Elongation index Max 35%
2	Elongation Index %	12.3	13.0	
	Combined Flakiness & Elongation index	22.9	24.4	

Note:

1. The material is Satisfied as per the Requirements.

For CIVIL QUALITY CONSULTANTS & ENGINEERS

Authorised Signatory

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ISO 9001:2015 Certified & NABL Accredited Laboratory as per ISO/IEC - 17025-2017

Testing of Construction Material - Mechanical, Soil, Bitumen, Non Destructive Testing Services, Project Management Consultants, Third Party Quality Assurance, DPR.

Job No.: CQCE/BBMP/NMK/16/2021-22

Date 05.11.2021

ATTERBERG LIMITS TEST FOR WMM

Client : **Assistant Executive Engineer,** Yeshwnthpura Sub Division, BBMP, Bangalore.

Agency : **Sri. N M Krishnamurthy,** Contractor, Bangalore.

Name of Work Removal of Debries,Berm Cuttings,Filling of Road Cutting and other road Maintenance Works in Ward no-16 Jalahalli, BBMP, Bangalore.

IS Code: IS 2720(Part 5):1985

Date of Testing : 03.11.2021 to 05.11.2021

Material Type : Wet Mix Macadam

Sl. No.	Particulars	Test Results	Requirement as per MORTH 5th edition Cl.406.2.1.2
1	Liquid Limit	20.50	-
2	Plasticity Index, %	Non Plastic	6.0% Maximum.

Note:

1. The material is Satisfied as per the Requirements.

For CIVIL QUALITY CONSULTANTS & ENGINEERS

Authorised Signatory

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Testing of Construction Material - Mechanical, Soil, Bitumen, Non Destructive Testing Services, Project Management Consultants, Third Party Quality Assurance, DPR.

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Job No.: CQCE/BBMP/NMK/16/2021-22

TEST REPORT

Date: 15.11.2021

Client	:	: Assistant Executive Engineer, Yeshwnthpura Sub Division, BBMP, Bangalore.
Agency	:	: Sri. N M Krishnamurthy, Contractor, Bangalore.
Name of the work	:	Removal of Debries,Berm Cuttings,Filling of Road Cutting and other road Maintenance Works in Ward no-16 Jalahalli, BBMP, Bangalore.
IS Code	:	IS 73:2013, IS 1203:1978(RA 2008), IS 1205:1978(RA 2009), IS 1208:1978(RA 2009), IS 1209:1978(RA 2009)
Source	:	VG 10
Date of testing	:	15.11.2021

The results of the tests conducted on the bitumen sample using for Semi Dense Bituminous Concrete

Sl. No	Description	Test Result	Requirement as per IS:73:2013
1	Penetration at 25 ^{0}C, 1/10 mm	81	Min 80
2	Softening point, ^{0}C	45	Min. 40
3	Ductility at 27^{0}C, cm	100 >	Min. 75
4	Flash Point, ^{0}C	257	Min. 220

Note:

A. The Material is Satisfied as per the Requirements.

For CIVIL QUALITY CONSULTANTS & ENGINEERS

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Testing of Construction Material - Mechanical, Soil, Bitumen, Non Destructive Testing Services, Project Management Consultants, Third Party Quality Assurance, DPR.

Job No.: CQCE/BBMP/NMK/16/2021-22

15.11.2021

Aggregate Impact Value

Client	: Assistant Executive Engineer, Yeshwnthpura Sub Division,
Agency	: Sri. N M Krishnamurthy, Contractor, Bangalore.
Name of the Work	Removal of Debries,Berm Cuttings,Filling of Road Cutting and other road Maintenance Works in Ward no-16 Jalahalli, BBMP, Bangalore.
IS Code	IS 2386 (Part 1):1963(RA 2011)
Type of Mix	Semi Dense Bituminous Concrete
Date of Testing	15.11.2021

Sl No.	Details	Test No.		Average
		1	2	
1	Total weight of aggregate sample filling the cylindrical measure = W_1 g	385	387	
2	Weight of agregate passing 2.36 mm sieve after the test = W_2 g	86	88	
3	Weight of aggregate retained 2.36 mm sieve after the test = W_3 g	299	299	
4	Aggregate Impact value = percent fines	22.34	22.74	
	100* (W_2/W_1)%			22.54

Comments:

→ Maximum allowable Aggregate Impact value for Semi Dense Bituminous Concrete is 27%

Note:

1. The Material is Satisfied as per the Requirements.

For CIVIL QUALITY CONSULTANTS & ENGINEERS

Authorised Signatory

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Testing of Construction Material - Mechanical, Soil, Bitumen, Non Destructive Testing Services, Project Management Consultants, Third Party Quality Assurance, DPR.

Job No.: CQCE/BBMP/NMK/16/2021-22

Date: 15.11.2021

DETERMINATION OF FLAKINESS INDEX & ELONGATION INDEX OF COARSE AGGREGATES

Client	: Assistant Executive Engineer, Yeshwnthpura Sub Division, BBMP, Bangalore.
Agency	: Sri. N M Krishnamurthy, Contractor, Bangalore.
Name of Work	Removal of Debries,Berm Cuttings,Filling of Road Cutting and other road Maintenance Works in Ward no-16 Jalahalli, BBMP, Bangalore.
IS Code	IS 2386 (Part 1):1963(RA 2011)
Type of Mix	Semi Dense Bituminous Concrete
Date of Testing	15.11.2021

Sl no	Test	1	2	3	Requirements as per MORTH 4th edition table no 500.14
1	Flakiness Index	11.4	10.9	9.8	Combined Flakiness & Elongation index Max 30%
2	Elongation Index	10.6	11.3	10.5	
	Combined Flakiness & Elongation index	22.0	22.2	20.3	

For CIVIL QUALITY CONSULTANTS & ENGINEERS

Authorised Signatory

Note:

1. The Material is Satisfied as per the Requirements

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Testing of Construction Material - Mechanical, Soil, Bitumen, Non Destructive Testing Services, Project Management Consultants, Third Party Quality Assurance, DPR.

Job No.: CQCE/BBMP/NMK/16/2021-22

Date : 17.11.2021

Specific Gravity And Water Absorption Test

Client	: Assistant Executive Engineer, Yeshwnthpura Sub Division, BBMP, Bangalore.
Agency	: Sri. N M Krishnamurthy, Contractor, Bangalore.
Name of the Work	Removal of Debries,Berm Cuttings,Filling of Road Cutting and other road Maintenance Works in Ward no-16 Jalahalli, BBMP, Bangalore.
Type of Mix	Semi Dense Bituminous Concrete
IS code	IS 2386 (Part 3):1963(RA 2011)
Date of Testing	15.11.2021 to 17.11.2021

Sl. No.	Details	Notation	Test Number			Mean Value
			Test 1	Test 2	Test 3	
1	Weight of aggregate suspended in water with the basket	W_1 g	2027	2029	2031	
2	Weight of basket suspended in water	W_2 g	755	755	755	
3	Weight of saturated aggregate in water	$(W_1 - W_2) = W_s$ g	1272	1274	1276	
4	Weight of saturated surface dry aggregate in air	W_3 g	2021	2023	2025	
5	Weight of water equal to the volume of the aggregate	$(W_3 - W_S)$ g	749	749	749	
6	Weight of oven dried aggregate	W_4 g	2011	2013	2014	
7	Specific Gravity	$W_4/(W_3-W_S)$	2.685	2.688	2.689	2.687
8	Apparent Specific gravity	$W_4/(W_4-W_S)$	2.721	2.724	2.729	2.725
9	Water Absorption	$((W_3-W_4)*100)/W_4$	0.50%	0.50%	0.55%	0.51%

Comments:

→ Maximum allowable Aggregate Water absorption value for Semi Dense Bituminous Concrete is 2.0%

Note:

1. The Material is Satisfied as per the Requirements.

For CIVIL QUALITY CONSULTANTS & ENGINEERS

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Testing of Construction Material - Mechanical, Soil, Bitumen, Non Destructive Testing Services, Project Management Consultants, Third Party Quality Assurance, DPR.

Job No.: CQCE/BBMP/NMK/16/2021-22

Date : 15.11.2021

Aggregate Gradation Test

IS : 2386 Part I

Client	: Assistant Executive Engineer, Yeshwnthpura Sub Division, BBMP,
Agency	: Sri. N M Krishnamurthy, Contractor, Bangalore.
Name of theWork	Removal of Debries,Berm Cuttings,Filling of Road Cutting and other road Maintenance Works in Ward no-16 Jalahalli, BBMP, Bangalore.
Type of Mix	Semi Dense Bituminous Concrete
Date of Testing	15.11.2021

Total Weight of Sample: 5270 gm

SIEVE SIZE, mm	Weight Retained, gm	% Retained	Cummulative % Retained	% Passing	JOBMIX Gradation as per MORTH	Remarks
19	0	0	0	100	100	Gradation satisfies Semi Dense Bituminous concrete Grade-I specification as per MORTH
13.2	368	6.98	6.98	93.02	90-100	
9.5	417	7.91	14.90	85.10	70-90	
4.75	2235	42.41	57.31	42.69	35-51	
2.36	862	16.36	73.66	26.34	24-39	
1.18	524	9.94	83.61	16.39	15-30	
0.3	258	4.90	88.50	11.50	9-19	
0.075	258	4.90	93.40	6.60	3-8	

Total Weight of Sample: 5250 gm

SIEVE SIZE, mm	Weight Retained, gm	% Retained	Cummulative % Retained	% Passing	JOBMIX Gradation as per MORTH	Remarks
19	0	0	0	100	100	Gradation satisfies Semi Dense Bituminous concrete Grade-I specification as per MORTH
13.2	420	8.00	8.00	92.00	90-100	
9.5	457	8.70	16.70	83.30	70-90	
4.75	2233	42.53	59.24	40.76	35-51	
2.36	623	11.87	71.10	28.90	24-39	
1.18	487	9.28	80.38	19.62	15-30	
0.3	501	9.54	89.92	10.08	9-19	
0.075	287	5.47	95.39	4.61	3-8	

Note:

1. The Material is Satisfied as per the Requirements.

For CIVIL QUALITY CONSULTANTS & ENGINEERS

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Testing of Construction Material - Mechanical, Soil, Bitumen, Non Destructive Testing Services, Project Management Consultants, Third Party Quality Assurance, DPR.

Job No.: CQCE/BBMP/NMK/16/2021-22

Date: 19.11.2021

TEST REPORT ON STABILITY OF MIX

Client	:	: Assistant Executive Engineer, Yeshwnthpura Sub Division, BBMP, Bangalore.
Agency	:	: Sri. N M Krishnamurthy, Contractor, Bangalore.
Name of the Work	:	Removal of Debries,Berm Cuttings,Filling of Road Cutting and other road Maintenance Works in Ward no-16 Jalahalli, BBMP, Bangalore.
Type of Mix	:	Semi Dense Bituminous Concrete
Date of Testing	:	19.11.2021

The results of the tests conducted on the Semi Dense bituminous concrete mix sample are as follows:

Sl. No	Description	Test Result 1	Test Result 2	Requirement as per MORTH (Table 500-19)
1	Marshal Stability, Kn	9.85	10.12	9 Kn (min)
2	Marshal flow, mm	3.24	2.98	2 – 4
3	Percent air voids in Mineral Aggregate	13.65	14.25	13 – 15
4	Voids in Compacted Mix	3.74	4.45	3 – 6
5	Percent Voids filled with Bitumen	70.65	71.25	65 - 75
6	Density, g/cc	2.27	2.26	--

Note:

1. The Material is Satisfied as per the Requirements.

For CIVIL QUALITY CONSULTANTS & ENGINEERS

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Testing of Construction Material - Mechanical, Soil, Bitumen, Non Destructive Testing Services, Project Management Consultants, Third Party Quality Assurance, DPR.

Job No.: CQCE/BBMP/NMK/16/2021-22

Date : 19.11.2021

BITUMEN CONTENT AND GRADATION DETERMINATION OF SEMI DENSE BITUMINOUS CONCRETE MIX

AASHTO T 164 & AASHTO T 30

CLIENT	: Assistant Executive Engineer, Yeshwnthpura Sub Division, BBMP, Bangalore.
AGENCY	: Sri. N M Krishnamurthy, Contractor, Bangalore.
NAME OF THE WORK	Removal of Debries,Berm Cuttings,Filling of Road Cutting and other road Maintenance Works in Ward no-16 Jalahalli, BBMP, Bangalore.
DATE OF TESTING	19.11.2021

BITUMEN CONTENT DETERMINATION

Description	Trail 1	Trail 2
1. Weight of Mixture before Test, g	500	500
2. Weight of Mixture after Test, g	473.2	473.5
3. Weight of Asphalt and Mineral matter Extracted,	-	-
4. Weight of Mineral Matter, g.	-	-
5. Weight of Ash, g		
6. Weight of Bitumen Extracted, g. (corrected)	26.8	26.50
7. Bitumen content in %	5.36	5.30
8. Average	5.33	

GRADATION AFTER EXTRACTION

SIEVE SIZE	Trail 1				JOBMIX
mm	Weight Retained, gm	% Retained	%Cummulative Retained	% Passing	Gradation
19	0	0	0	100	100
13.2	15.9	3.36	3.36	96.64	90-100
9.5	35.6	7.52	10.88	89.12	70-90
4.75	230.8	48.77	59.66	40.34	35-51
2.36	45.9	9.70	69.36	30.64	24-39
1.18	55.3	11.69	81.04	18.96	15-30
0.3	35.6	7.52	88.57	11.43	9-19
0.075	29.6	6.26	94.82	5.18	3-8

SIEVE SIZE	Trail 2				JOBMIX
mm	Weight Retained, gm	% Retained	%Cummulative Retained	% Passing	Gradation
19	0	0	0	100	100
13.2	13.5	2.85	2.85	97.15	90-100
9.5	29.1	5.82	5.82	94.18	70-90
4.75	241.5	48.30	54.12	45.88	35-51
2.36	55.2	11.04	65.16	34.84	24-39
1.18	36.9	7.38	72.54	27.46	15-30
0.3	74.2	14.84	87.38	12.62	9-19
0.075	35.9	7.18	94.56	5.44	3-8

Note:
1. The Material is Satisfied as per the Requirements.

For CIVIL QUALITY CONSULTANTS & ENGINEERS

Authorised Signatory

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